	Application No.	Applicant(s)
Notice of Allowability	09/811,637	STEINBUSCH, OTTO LODEWIJK
	Examiner	Art Unit	
	Tuan A Vu	2124	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *9/23/2004*.

2. ☒ The allowed claim(s) is/are *1-9*.

3. ☒ The drawings filed on *19 March 2001* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some*   c)☐ None   of the:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a)☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

      1) ☐ hereto or 2)☐ to Paper No./Mail Date _____ .

    (b)☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

      Paper No./Mail Date _____ .

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

DETAILED ACTION

1.   This action is responsive to the Applicant's response filed 9/23/2004.

As indicated in Applicant's response, no claims have been amended. Claims 1-9 are

pending in the office action.

EXAMINER'S AMENDMENT

2.   The application has been amended as follows:

ABSTRACT:

Delete "Fig. 2" at line 15 under the main body of the abstract.

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

3.   Claims 1-9 are allowed.

The following is an examiner's statement of reasons for allowance.

The prior art of record, taken alone or in combination fails to teach or suggest the

following claimed features:

A method of executing a program supporting different categories of instruction types,

having a symbol reference table containing information for resolving symbolic references from

any of the categories, such method providing (i) groups of memory locations such that each

group is assigned to a respective one of the instruction categories, each group storing symbolic

reference-result associations, such result being obtained from resolving the symbolic reference of

an instruction in one such association, and the instruction being one instruction of the category to

which the group is assigned; (ii) using the result from the association as operand data for

executing any particular instruction and, if no such association exists, resolving the symbolic

reference by means of the above symbol table, and storing the result from such resolving in an

association between the symbolic reference and such result in the group assigned to the category

of such particular instruction as recited in claims 1, 6 and 8.

Gee et al. (USPN: 6,317, 872) discloses a virtual machine executing method using a

constant pool for storing symbol table information and a Class Static Area (CSA) containing

references and indexed information for those symbol and method references which would be

used at runtime, such information being pointers or logical reference enabling resolving

symbolic reference into logical address reference of the object being referred, thereby enabling

the resolved access information to be stored within the object. But Gee does not specifically

teach storing an association as in (i) in order to expedite the execution based on an instruction

category to which groups are assigned, and the resolution result being stored in the association

created for the instruction under a particular category/group; nor does Gee disclose creating of

additional associations as in (ii) in the course of resolving symbolic reference when there is not

already one such association being stored according to (i) during runtime.

Darlet et al. (USPN: 6,542,167) discloses a method enabling out-of-order linking of

software program modules with storing of the program in memory according to modules to form

a link status information table including per module identifier, the unresolved symbols of the

module and memory locations of unresolved symbols; the method using such table for tracking

symbols that are used by the program and iteratively resolving every symbolic reference using a

symbol table. But Darlet does not disclose or render obvious the teaching of an association

storing instruction/result at execution time as in (i) and (ii).

Notes:

(1) Examiner would urge Applicants to modify the drawings before publication so that more insight be imparted thereto in order to put forth the particulars of the invention: e.g. for Figure 2, providing textual legend instead of numerical identification to each step of instruction loading flow diagram. The suggested improvement to the drawings will not hold the allowance in abeyance.

(2) The IDS document filed 3/19/2001 as a publication, # 0 009 946 A1, of a European application should be removed from the IDS material of record because the subject matter therein (X-ray device) is not pertinent to the invention. Applicant is urged to have it remove from file. The suggestion concerning this misplaced document will not hold the allowance in abeyance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A Vu whose telephone number is (272) 272-3735. The examiner can normally be reached on 8AM-4:30PM/Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (571)272-3719.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-3735 (for non-official correspondence – please consult Examiner before

using) or 703-872-9306 (for official correspondence) or redirected to customer service at 571-272-3609.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VAT
February 1, 2005

TODD INGBERG
PRIMARY EXAMINER